	Application No.	Applicant(s)
•		
Notice of Allowability	10/773,022	LEE ET AL.
Notice of Anomability	Examiner	Art Unit
	Walter L. Lindsay, Jr.	2812
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apply or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to		
2. The allowed claim(s) is/are <u>1-28</u> .		
3. \boxtimes The drawings filed on <u>05 February 2004</u> are accepted by t	he Examiner.	
4. Acknowledgment is made of a claim for foreign priority una All b) Some* None of the: 1. Certified copies of the priority documents have Certified copies of the priority documents have Copies Certified copies Certified copies Certified copies Certified Certified	e been received. e been received in Application No cuments have been received in this of this communication to file a reply	national stage application from the
 THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit informal patent application (PTO-152) which give 		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers		948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date		Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date <u>2/5/2004</u>	Paper No./Mail Dat 08), 7. ☐ Examiner's Amendr	
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	 8.	ent of Reasons for Allowance
	MICHA	EL S. LEBENTRITT HARY EXAMINER

DETAILED ACTION

This Office Action is in response to an Application filed on 2/05/2004.

Currently, claims 1-28 are pending.

Allowable Subject Matter

- 1. Claims 1-28 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: the prior art, either singly or in combination fails to anticipate or render obvious, the limitations of:

... forming a tunnel structure in an active region of a substrate that is defined by a trench positioned in an isolation region of the substrate, the tunnel structure extending substantially parallel to the substrate, as required by claim 1; and

...forming in a substrate, a trench and a tunnel that extends from a sidewall of the trench parallel to the substrate;

forming an insulating coating inside the tunnel;

forming a bottom gate electrode within the insulating coating inside the tunnel, as required by claim 23.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/773,022

Art Unit: 2812

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Walter L. Lindsay, Jr. whose telephone number is (571) 272-1674. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael S. Lebentritt can be reached on (571) 272-1873. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

February 3, 2005

MICHAEL S. LEBENTRIT
PRIMARY EXAMINER

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